case of one of these eight projects, viz. the Visakhapatnam Thermal Power Project (1040 MW) of M/s Hinduja National Power Company Limited (HNFCL) in Andhra Pradesh through a revised procedure. It has, inter-alia, been decided that counter-guarantee will be given only for the event of termination and will be limited to the outstanding foreign debt only.

There are alternative security mechanisms for the central public sector undertakings in the power sector.

Loans to Power Grid Corporation

3921. SHRI GHUFRAN AZAM: Will the Minister of POWER be pleased to state:

(a) whether Power Grid Corporation has sought sectoral loan from Asian Development Bank to undertake system improvement schemes;

(b) if so, the total loan required for the upgradation of the system;

(c) whether the madolities for loans have been worked out and discussions held with the officials of Asian Development Bank; and

(d) if so, the details thereof?:

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) and (b) yes Sir. Powergrid Corporation of India Ltd. (POWERGRID) has sought a sectoral loan of US $ 350 million from Asian Development Bank (ADB) to undertake various System Improvement Schemes and Associated Transmission Systems.

(c) and (d) A fact finding Mission from ADB held discussions with POWERGRID in May, 1998. The ADB is likely to send an appraisal mission. After the appraisal of the Project and conclusion of negotiation, the ADB Board will take decision regarding funding of the project.

Renovation/Modernisation of Power Plants

3922. SHRI RAMDAS AGARWAL: Will the Minister of POWER be pleased to state:

(a) whether Government have so far taken any final decision for renovating/ modernising the existing power plants on a large scale;

(b) if so, the number of plants which are likely to be renovated/modernised (State-wise);

(c) to what extent their capacity will be increased as a result thereof; and

(d) the total additional budgetary support provided for modernising these power plants during 1998-99 year and Ninth Plan period?

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) in order to improve the performance of the existing thermal power stations, a renovation and modernisation (R&M) programme (Phase-I) was launched by the Government of India in 1984. The programme covered 163 thermal units in 34 selected stations. The total sanctioned cost of various schemes was Rs. 1165.00 crores. Benefits by way of additional generation of more than 10000 MUs/year have been achieved against the target of 7000 MUs/year.

Phase-II of the programme for R&M for thermal power stations was taken up in the year 1990-91 for implementation during the 8th Plan. Under this programme, 44 thermal power stations comprising 198 thermal units aggregating a total capacity of 20869.435 MW were covered at a total sanctioned cost of Rs.2383.03 crores.

A programme for renovation, modernisation and uprating of hydel power stations was also formulated in which 55 schemes were identified with an aggregate capacity of 9653 MW (210 generating units). The total estimated cost of these schemes is Rs.1493.00 crores.

(b) The number of plants State-wise to be renovated and modernised are attached Statement. *(See* below).

(c) After the completion of R&M Phase-II of the Thermal power programmes, the benefits expected are:

(i) Additional generation of 7864 MUs/year;

(ii) increase of 100 MW peaking capacity; and

(iii) life extension of 24 thermal units by 15-20 years.

The expected benefits of R&M programme of hydel power stations are 2531 MW/7180 MUs.

(d) At present there is no budgetary support for modernisation of power plants of State Electricity Boards. However, a provision of Rs.370.00 crores has been made in the budget of 1998-99 for interest subsidy to Power Finance Corporation under the Accelerated Generation & Supply Programme. This programme, besides funding schemes of generation and transmission also covers R&M of power plants.

Statement

No. of Power Stations Under R&M (Statewise)

Sl.	Name of State	No. of Thermal Power stations	No. of Hydro Power Stations
1	2	3	4
1.	Delhi	2	—
2.	Haryana	2	—
3.	Punjab	2	5
4.	Rajasthan	1	—
5.	Uttar Pradesh	4	7
6.	Madhya Pradesh	4	—
7.	Gujarat	4	1
8.	Maharashtra	6	2
9.	Tamil Nadu	4	7
10.	Andhra Pradesh	2	4
11.	West Bengal	3	2
12.	Bihar	5	2
13.	Orissa	—	5
14.	Himachal Pradesh	—	3
15.	Jammu & Kashmir	—	3
16.	Karnataka	—	5
17.	Kerala	—	4
18.	Assam	5	1
19.	Meghalaya	—	2
20.	Tripura	—	1
21.	Manipur	—	1
	TOTAL	44 Nos.	55 Nos.

बिजली की प्रति व्यक्ति खपत

3923. **श्री जनेश्वर मिश्र:** क्या विद्युत मंत्री यह बताने की कृपा करेंगे कि:

(क) देश में प्रति व्यक्ति प्रतिदिन बिजली की खपत कितनी है;

(ख) इसका राज्य-वार ब्यौरा क्या है;

(ग) प्रति-व्यक्ति प्रतिदिन बिजली की खपत के मामले में भारत का विश्व में क्या स्थान है; और

(घ) सरकार प्रति व्यक्ति बिजली की खपत बढ़ाने हेतु क्या कार्रवाई कर रही है?

विद्युत मंत्री (श्री रंगराजन कुमारमंगलम): (क) और (ख) वर्ष 1995-96 और 1996-97 के लिए विद्युत ऊर्जा (यूटिलिटी+गैर-यूटिलिटी) का राज्यवार प्रति व्यक्ति वार्षिक खपत विवरण-I में संलग्न है (नीचे देखिए)।

(ग) विश्व के सभी देश के सन्दर्भ में भारत की तुलनात्मक स्थिति उपलब्ध नहीं है। तथापि, चुने गए विकसित एवं विकासशील देशों के प्रति व्यक्ति वार्षिक विद्युत उपभोग का तुलनात्मक ब्यौरा विवरण-II में संलग्न है (नीचे देखिए)।

(घ) विद्युत की उपलब्धता को बढ़ाने के लिए सरकार द्वारा की गई कार्रवाई में अन्य बातों के साथ-साथ क्षमता अभिवृद्धि, मौजूदा सुविधाओं से अधिकतम उत्पादन, अंतर्राज्यीय अंतर-क्षेत्रीय विनिमयों का संवर्धन और ग्रामीण विद्युतीकरण इत्यादि शामिल है।